SILICONEXPERT
Case Study

Elobau Minimizes Errors and Costs with Nexpirit and SiliconExpert
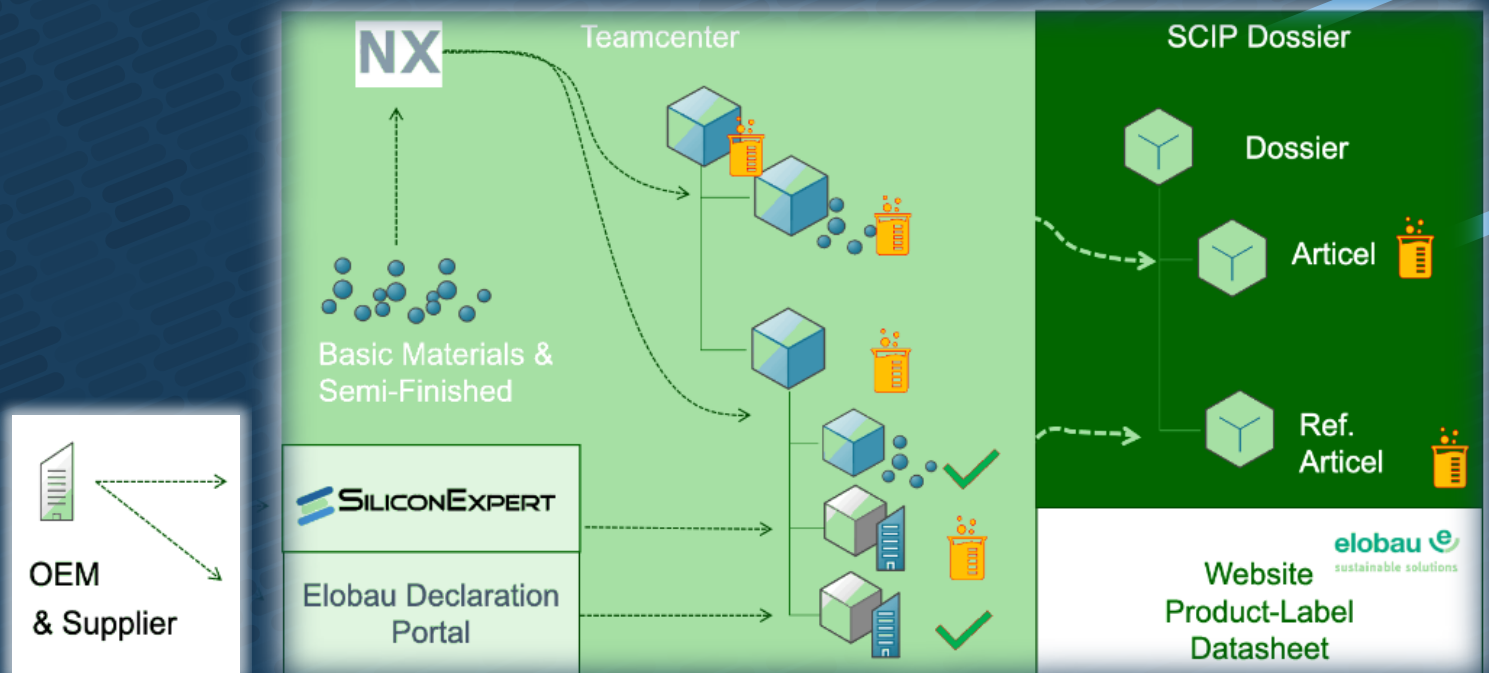
A use case on how a global manufacturer of contactless sensor technology utilized SiliconExpert's public API.

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The Challenge

Elobau, a global manufacturer of contactless sensor technology, level measurement elements and operator control elements, uses the Siemens Teamcenter platform to keep track of their product knowledge. Teamcenter keeps track of parts, design, and bill of materials information.

Teamcenter® Integrated Material Management enables the usage of enterprise-wide approved material information for mission-critical product functions, such as design, engineering, compliance and manufacturing.

In order to calculate the product compliance for their large and variant-rich BOMs, Elobau had to manually chase declarations for their 20,000 buy parts. Gathering information from suppliers was laborious. It included web searches, emails and phone calls. The collected data was not systematically stored, providing limited data reusage possibilities. This in combination with constantly updating regulations such as the REACH Substances of Very High Concern (SVHC) list, made a more integrated and automated set-up desirable.

The Solution

Elobau knew that they needed to improve their Basic Material definition and automate the process of pulling in material declarations. They found Nexpirit, a Siemens Smart Expert Solution Partner who focuses on enabling the Green Digital Twin within the Siemens Portofolio. After a process assessment and prototype phase, Elobau decided to introduce the IMM Solution. Given choices of where to extract compliance declaration information, elobau selected SiliconExpert, considered by many as the gold standard of compliance information.

Nexpirit provided a solution which streamlines the process around supplier declarations and enabled the Elobau engineers to gain visibility into all the materials and substances that make up their products. Substance Compliance data via the industry standard format IPC-1752 is automatically synchronized between Teamcenter and SiliconExpert. The latest and greatest declaration from SiliconExpert is used to calculate the end-product compliance for various regulations, such as REACH and RoHS within Teamcenter. The corresponding REACH SVHC information is transferred automatically from Teamcenter to the central European SCIP Database.

Teamcenter acts as the library for Elobau's EDA tool as well. This allows their design engineers access to up-to-date information when placing parts in their designs.

Simon Brack, Material Engineering at Elobau, appreciates having lifecycle and material compliance information available in the design tool, "When our engineers have the information, they can make design decisions that lead to stable products and analyze regulations during the design phase."

The Impact

Elobau now has 2,500 electronic components in the list of those that are being updated from the SiliconExpert database and the list is growing.

Using the SiliconExpert Teamcenter Interface from Nexpirit, Substance Compliance data is automatically synchronized between SiliconExpert and Teamcenter. Bringing the information in as early as possible has minimized errors and rework costs. Automating the data exchange of material and substance declarations with suppliers has eliminated a lot of manual effort and brought Elobau peace of mind.

As a next step the SiliconExpert interface to Teamcenter will be extended to also transfer additional product risk and obsolescence information, to go beyond Substance Compliance.

> *For Elobau, it is a huge effort to gather necessary information from different sources and systems. SiliconExpert enables us to obtain system-compatible data from one source. I feel confident that we have the necessary declarations in our system."*
>
> Simon Brack, Material Engineering, Elobau

How Can SiliconExpert Help You?

Contact us at sales@siliconexpert.com to discuss your specific challenges and get a custom solution.